### SCS ENGINEERS

# **Groundwater Monitoring Report: Third Quarter 2005**

Schmidbauer Lumber, Inc. 1099 Waterfront Drive Eureka, California

File Number 01203316.00

Prepared by:

SCS Engineers 434 7<sup>th</sup> Street, Suite B Eureka, California 95501

To:

Kasey Ashley North Coast Regional Water Quality Control Board 5550 Skylane Boulevard, Suite A Santa Rosa, California

**7 October 2005** 

### LIMITATIONS/DISCLAIMER

This report has been prepared for Schmidbauer Lumber Company, Inc. with specific application to a quarterly monitoring event for the property located at 1099 Waterfront Drive, Eureka, California (the "Site"). Field activities and sampling were conducted in accordance with the care and skill generally exercised by reputable professionals, under similar circumstances, in this or similar localities. No other warranty, either expressed or implied, is made as to the professional advice presented herein.

Access to the Property was limited by buildings, automotive traffic, underground and aboveground utilities, and other miscellaneous site features. Therefore, the field exploration and points of subsurface observation were somewhat restricted.

Changes in site use and conditions may occur due to variations in rainfall, temperature, water usage, or other factors. Additional information which was not available to the consultant at the time of this quarterly monitoring event or changes which may occur on the site or in the surrounding area may result in modification to the site that would impact the summary presented herein. This report is not a legal opinion.

We look forward to continuing to work with you on this project and trust this report provides the information you require at this time. If you have any questions or need additional information, please call SCS at 707.476.1590.

Kevin Coker

Project Scientist, REA #7887

Date

PROF

Expires 30 June 2006

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#### Introduction

SCS Engineers (SCS) is pleased to present the results for the third quarter 2005 groundwater monitoring and sampling event at the Schmidbauer Lumber, Inc. (Schmidbauer) site located at 1099 Waterfront Drive in the City of Eureka, California. A summary of historical site investigation activities is presented in previous reports (PNEG, 1998a, 1999a, & 2001c; SCS, 2003b & 2004b). The site location is as shown on the attached Site Location Map (Figure 1). General site features are as shown on the attached Site Plan (Figure 2).

### **Groundwater Monitoring**

Depth to groundwater measurements were collected from monitoring wells MW-1, MW-2, MW-3R, MW-4, MW-5, MW-6, MW-7, MW-8D and MW-9D on 14 September 2005 in order to determine groundwater flow direction and gradient at the site. Depth to groundwater in the shallow wells ranged from approximately 2.59 to 3.65 feet below existing grade. The depths to groundwater in the deep wells (MW-2, MW-8D, and MW-9D) were 6.58 to 7.08 feet below existing grade. The depth to groundwater measurements and well casing elevations were used to calculate the groundwater flow direction and gradient at the Site. Casing and groundwater elevations are reported in feet relative to mean sea level. Depths to groundwater are expressed in feet. The site-wide or regional (MW-3R, MW-4, MW-5) shallow groundwater flow direction was interpolated to be west-northwest (Figure 3, and Chart 1) at a calculated gradient of 0.001. The localized (MW-1, MW-6, MW-7) shallow groundwater flow direction and gradient was interpolated to be west-northwest at a calculated gradient of 0.003 (Figure 4, and Chart 2). The deep flow direction (MW-2, MW-8D, MW-9D) was interpolated to be east-southeast (Figure 5 and Chart 3) at a calculated gradient of 0.004. Groundwater flow direction and gradient for this and previous monitoring events are presented in Tables 1A, 1B, and 1C (attached).

### **Groundwater Sampling**

Monitoring wells were checked for the presence of free product using an oil/water interface probe. Free product was not present during this monitoring event. Wells scheduled for sampling were purged of approximately three (3) wetted well casing volumes, or at least five (5) gallons of groundwater, whichever was greater, or until the well went dry, using a submersible pump. Temperature, pH, conductivity, turbidity, and dissolved oxygen readings were measured during purging to determine that groundwater representative of aquifer conditions was entering the well casings for sampling. Wells were allowed to recover to 80 percent of static levels or for 2 hours prior to sampling. Groundwater samples were collected using a clean, disposable bailer for each well. Samples were transferred to appropriate laboratory-supplied containers for analysis. Groundwater samples were labeled, stored under refrigerated conditions, and transported under Chain-of-Custody documentation to Analytical Sciences (AS), a California Department of Health Services-certified laboratory, in Petaluma, California. All samples were collected in accordance with the SCS' Standard Soil and Water Sampling Procedures and QA/QC Protocol. Water generated during recent site investigative activities is currently stored at the site in 55-gallon UN/DOT-approved 17-E/H drums, pending characterization and disposal. Information related to well purging

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was recorded on groundwater field sampling forms. Well Purge Records are presented in Appendix A.

### **Laboratory Analysis**

Groundwater samples collected from MW-1, MW-3R, MW-4, MW-5, MW-6, MW-7, MW-8D, and MW-9D were analyzed for chlorophenols using the Canadian Pulp Method. The Canadian Pulp Method was developed specifically to test for chlorophenols in samples with high wood sugars. This method is accepted by the North Coast Regional Water Quality Control Board (NCRWQCB) and by the Department of Toxic Substances Control DTSC.

### **Laboratory Analytical Results**

All groundwater samples analyzed for this monitoring event were below laboratory minimum detection limits (MDLs) for target analytes. Recent analytical results are incorporated with historical data in Tables 2 through 11 and plotted on the attached time versus concentration diagram (See Diagram A). A copy of the laboratory report is also attached (Appendix B).

#### **Discussion**

Consistent with previous reports and based on historical analytical information, concentrations of target analytes [pentachlorophenol (PCP), tetrachlorophenol isomers, and trichlorophenol (TCP)] in all wells have followed a trend of continuous decline to below laboratory minimum detection limits since inception of the groundwater sampling program in March 1999 (Tables 2 - 11 and Diagram A).

All samples analyzed for this monitoring event were below laboratory MDLs for target analytes. Samples collected from the shallow groundwater monitoring wells (MW-1, and MW-3R through MW-7) have been below laboratory MDLs for all target analytes since the May 2002 quarterly sampling event. Samples collected from the deep groundwater monitoring wells (MW-2, MW-8D, MW-9D) have been below laboratory MDLs for all target analytes since the February 2004 quarterly sampling event.

A groundwater mound exists between Mill #1 and Mill #2 (Figure 2). A localized groundwater flow plate has been prepared for this area (Figure 4).

### **Project Update**

SCS implemented the 28 July 2005 workplan for installation of four additional monitor wells on 19 and 20 September 2005. SCS anticipates submission of the report of findings by 2 January 2006, in accordance with the NCRWQCB Cleanup and Abatement Order R1-2005-0040 (Order). The next quarterly monitoring event is scheduled for December 2005.

# Attachments File No. 01203316.00

**Figures** 

Figure 1: Site Location Map

Figure 2: Site Plan: Boring and Monitoring Well Locations

Figure 3: Site Plan: Groundwater Flow Direction and Gradient: Sitewide Shallow Wells

(MW-3R, MW-4 & MW-5): 9/14/05

Figure 4: Site Plan: Groundwater Flow Direction and Gradient: Local Shallow Wells (MW-

1, MW-6, & MW-7): 9/14/05

Figure 5: Site Plan: Groundwater Flow Direction and Gradient: Deep Wells (MW-2, MW-

8D, MW-9D): 9/14/05

Charts

Chart 1: Windrose Diagram: Groundwater Flow Directions - 3/99 to 9/05 -Shallow

Monitor Wells

Chart 2: Windrose Diagram: Groundwater Flow Directions - 5/01 through 9/05 -

**Shallow Monitor Wells** 

Chart 3: Windrose Diagram: Groundwater Flow Directions - 3/99 through 9/05 – Deep

Monitor Wells

### **Diagrams and Tables**

Key to Diagram and Tables

Diagram A: Contaminant Concentration & Groundwater Elevation vs. Time – MW-1

Table 1A: Groundwater Flow Direction and Gradient for Shallow Wells: Site-wide

Crown dwater Flow Direction and Gradient for Shallow Wells: Level (MW)

Table 1B: Groundwater Flow Direction and Gradient for Shallow Wells: Local (MW-1,

MW-6 and MW-7 only)

Table 1C: Groundwater Flow Direction and Gradient for Deep Wells (MW-2, MW-8D, and

MW-9D)

Tables 2-11: Groundwater Analytical Results: MW-1 through MW-9D

Table 12: Groundwater Analytical Results: Trihalomethanes: June 2005

Appendix A: Well Purge Records, dated 14 September 2005

Appendix B: Analytical Sciences Report #5091602, dated 4 October 2005

### References

Environmental Resources Management, 1998, MW-14 Sampling Results, Schmidbauer Lumber Inc., Foot of Clark St., Eureka, California, September 4. Reactions and Movement of Organic Chemicals in Soils, Soil Science Society of America, 1989 PNEG, 1997, Work Plan for Subsurface Investigation - Schmidbauer Lumber Inc., Foot of Clark St., Eureka, California, January 27. , 1998a, Report on Subsurface Investigation - Schmidbauer Lumber Inc., Foot of Clark St., Eureka, California, May 22. , 1998b, Work Plan for Monitoring Well Installation - Schmidbauer Lumber Inc., Foot of Clark St., Eureka, California, December 10. , 1999a, Report of Investigation - Schmidbauer Lumber Inc., Foot of Clark St., Eureka, California, August 30. , 1999b, Results of the June 1999 Quarterly Groundwater Monitoring Event at the Foot of Clark St., Eureka, California, September 14. , 1999c, Results of the September 1999 Quarterly Groundwater Monitoring Event at the Foot of Clark St., Eureka, California, November 15. , 2000a, Results of the December 1999 Quarterly Groundwater Monitoring Event at the Foot of Clark St., Eureka, California, March 8. \_\_\_\_\_, 2000b, Results of the March 2000 Quarterly Groundwater Monitoring Event at the Foot of Clark St., Eureka, California, May 23. \_\_\_\_\_, 2000c, Results of the 2nd Quarter 2000 Groundwater Monitoring Event at the Foot of Clark St., Eureka, California, July 26. , 2000d, Work Plan for Installation of Peripheral Monitoring Wells and for Feasibility Study for Site Remediation by Phytoremediation - Schmidbauer Lumber, Inc., Foot of Clark Street, Eureka, California, September 12. , 2000e, Results of the 3rd Quarter 2000 Groundwater Monitoring Event at the Foot of Clark St., Eureka, California, October 31. , 2001a, Results of the 4th Quarter 2000 Groundwater Monitoring Event at the Foot of Clark St., Eureka, California, January 22. , 2001b, Work Plan for Phytoremediation Pilot Study - Schmidbauer Lumber, Inc., Foot of Clark Street, Eureka, California, March 8. , 2001c, Report on Installation of Monitoring Wells - Schmidbauer Lumber Inc., Foot of Clark St., Eureka, California, March 29. , 2001d, Report on Results of the 2nd Quarter 2001 Quarterly Groundwater Monitoring and Sampling Event - Schmidbauer Lumber, Inc., Foot of Clark Street, Eureka, California, July , 2001e, Results of the 3rd Quarter 2001 Groundwater Monitoring and Sampling Event -Schmidbauer Lumber, Inc., Foot of Clark Street, Eureka, California, October 29. , 2002a, Results of the 4th Quarter 2001 Groundwater Monitoring and Sampling Event -Schmidbauer Lumber, Inc., 1099 Waterfront Drive, Eureka, California, January 17. , 2002b. Work Plan for Installation of Additional Deep Monitoring Wells and Additional Shallow Borings - Schmidbauer Lumber, Inc., 1099 Waterfront Drive, Eureka, California, April 29.

, 2002c, Results of the 1st Quarter 2002 Groundwater Monitoring and Sampling Event -
Schmidbauer Lumber, Inc., 1099 Waterfront Drive, Eureka, California, May 20.
, 2002d, Results of the 2nd Quarter 2002 Groundwater Monitoring and Sampling Event -
Schmidbauer Lumber, Inc., 1099 Waterfront Drive, Eureka, California, July 3.
, 2002e, Results of the 3rd Quarter 2002 Groundwater Monitoring and Sampling Event -
Schmidbauer Lumber, Inc., 1099 Waterfront Drive, Eureka, California, September 25.
, 2002f, Results of the 4th Quarter 2002 Groundwater Monitoring and Sampling Event -
Schmidbauer Lumber, Inc., 1099 Waterfront Drive, Eureka, California, December 23.
, 2003a, Results of the 1st Quarter 2003 Groundwater Monitoring and Sampling Event -
Schmidbauer Lumber, Inc., 1099 Waterfront Drive, Eureka, California, March 17.
, 2003b, Results of the 2nd Quarter 2003 Groundwater Monitoring and Sampling Event -
Schmidbauer Lumber, Inc., 1099 Waterfront Drive, Eureka, California, June 23.
, 2003a, Results of the 3rd Quarter 2003 Groundwater Monitoring and Sampling Event -
Schmidbauer Lumber, Inc., 1099 Waterfront Drive, Eureka, California, September 30.
, 2003b, Results of Monitoring Well Installation and Drilling of Additional Borings -
Schmidbauer Lumber, Inc., 1099 Waterfront Drive, Eureka, California, November 20.
, 2004a, Results of the 4 <sup>th</sup> Quarter 2003 Groundwater Monitoring and Sampling Event -
Schmidbauer Lumber, Inc., 1099 Waterfront Drive, Eureka, California, January 14.
, 2004b, Results of Monitoring Well Installation and Drilling of Additional Borings (Revised,
11/20/03) and Results of Additional Deep Monitoring Well Installation - Schmidbauer
Lumber, Inc., 1099 Waterfront Drive, Eureka, California, April 12.
, 2004c, Results of the 2 <sup>nd</sup> Quarter 2004 Groundwater Monitoring and Sampling Event -
Schmidbauer Lumber, Inc., 1099 Waterfront Drive, Eureka, California, July 20.
, 2004d, Correction to the Results of the 2nd Quarter 2004 Groundwater Monitoring and
Sampling Event report, dated July 20, 2004, for the Schmidbauer Lumber, Inc. site at 1099
Waterfront Drive, Eureka, California, July 29.
, 2004e, Results of the 4 <sup>th</sup> Quarter 2004 Groundwater Monitoring and Sampling Event -
Schmidbauer Lumber, Inc., 1099 Waterfront Drive, Eureka, California, December 2.
, 2005a, Report of Findings: Groundwater Flow Direction Analysis and Review, Schmidbauer
Lumber, Inc., 1099 Waterfront Drive, Eureka, California.
, 2005b, Results of the 1 <sup>st</sup> Quarter 2005 Groundwater Monitoring and Sampling Event -
Schmidbauer Lumber, Inc., 1099 Waterfront Drive, Eureka, California.
, 2005c, Results of the 2 <sup>nd</sup> Quarter 2005 Groundwater Monitoring and Sampling Event -
Schmidbauer Lumber, Inc., 1099 Waterfront Drive, Eureka, California.
, 2005d, Workplan: Subsurface Investigation, Schmidbauer Lumber, Inc., 1099 Waterfront
Drive, Eureka, California.

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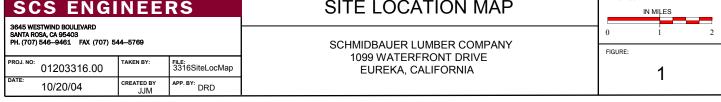
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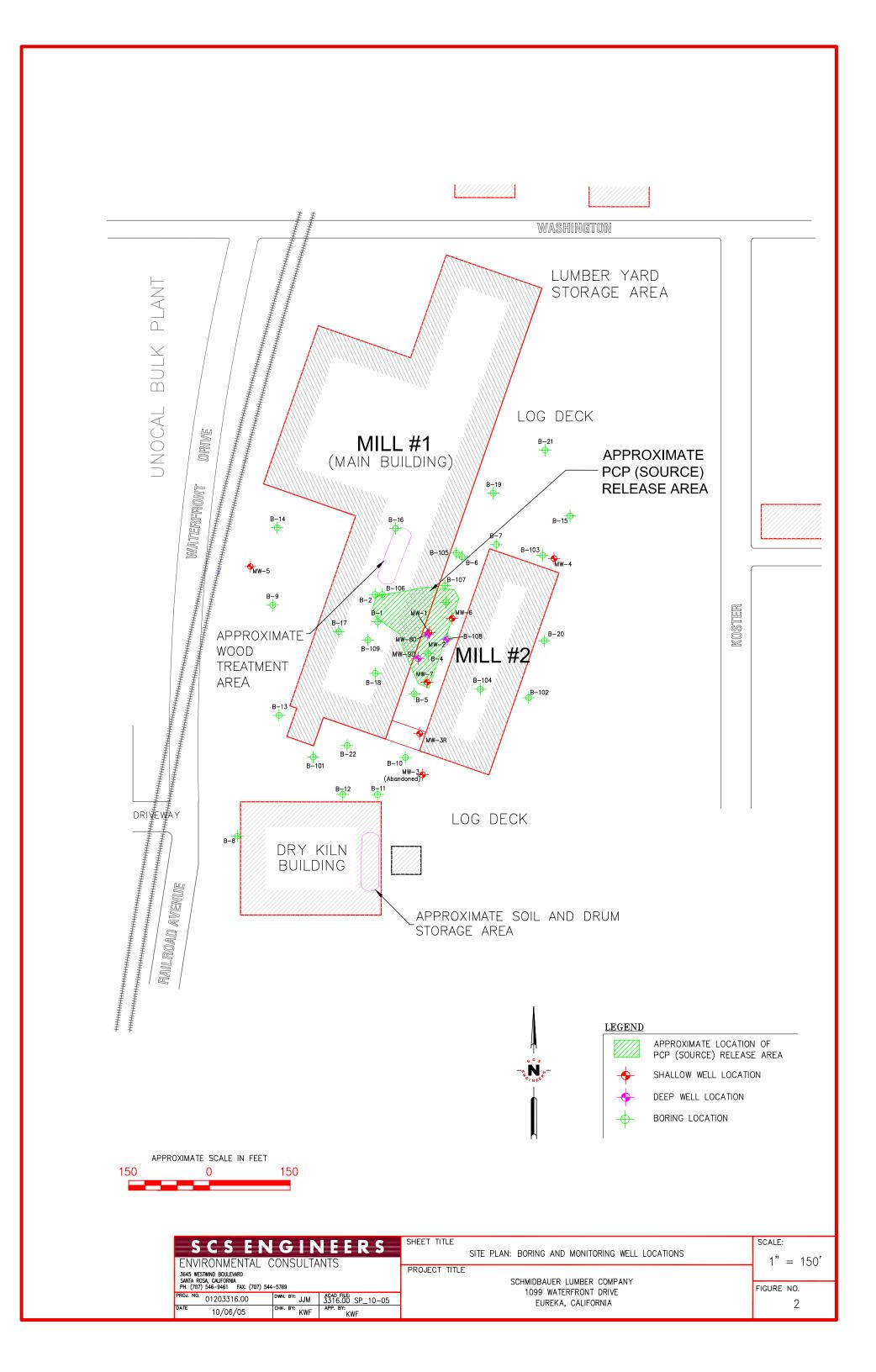
Mr. Rich Graham Schmidbauer Lumber, Inc. P.O. Box 152 Eureka, CA 95502

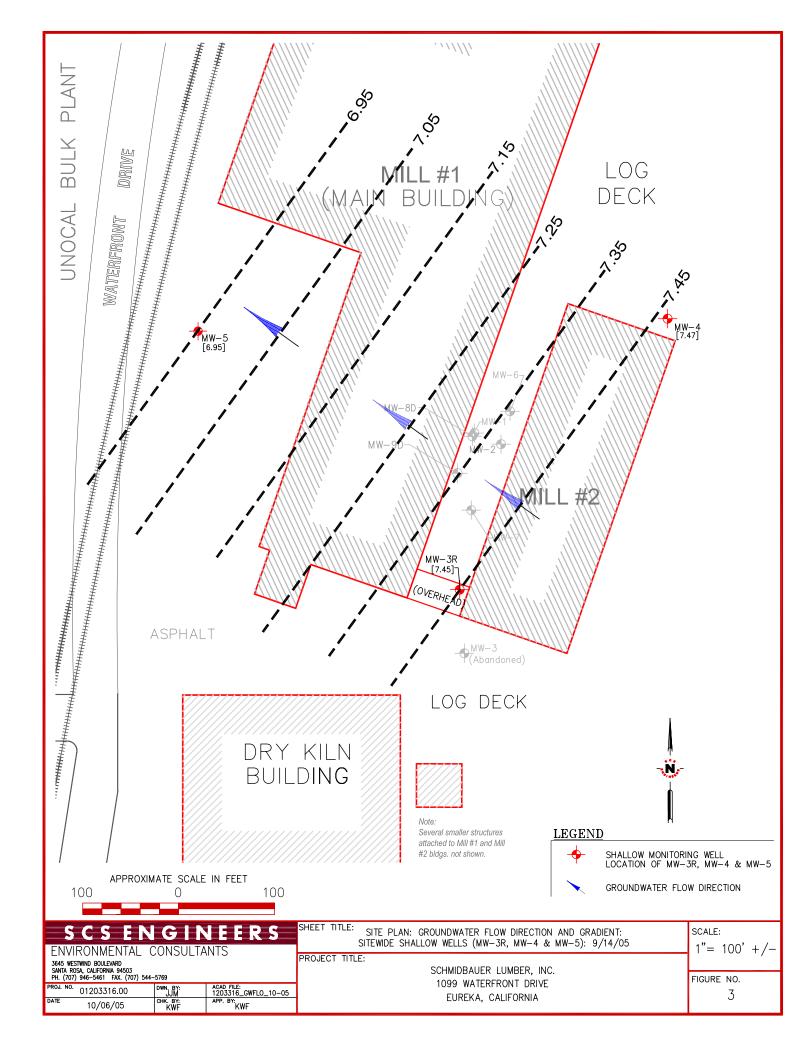
Mr. Mark Verhay Humboldt County Division of Environmental Health 100 H Street, Suite 100 Eureka, CA 95501

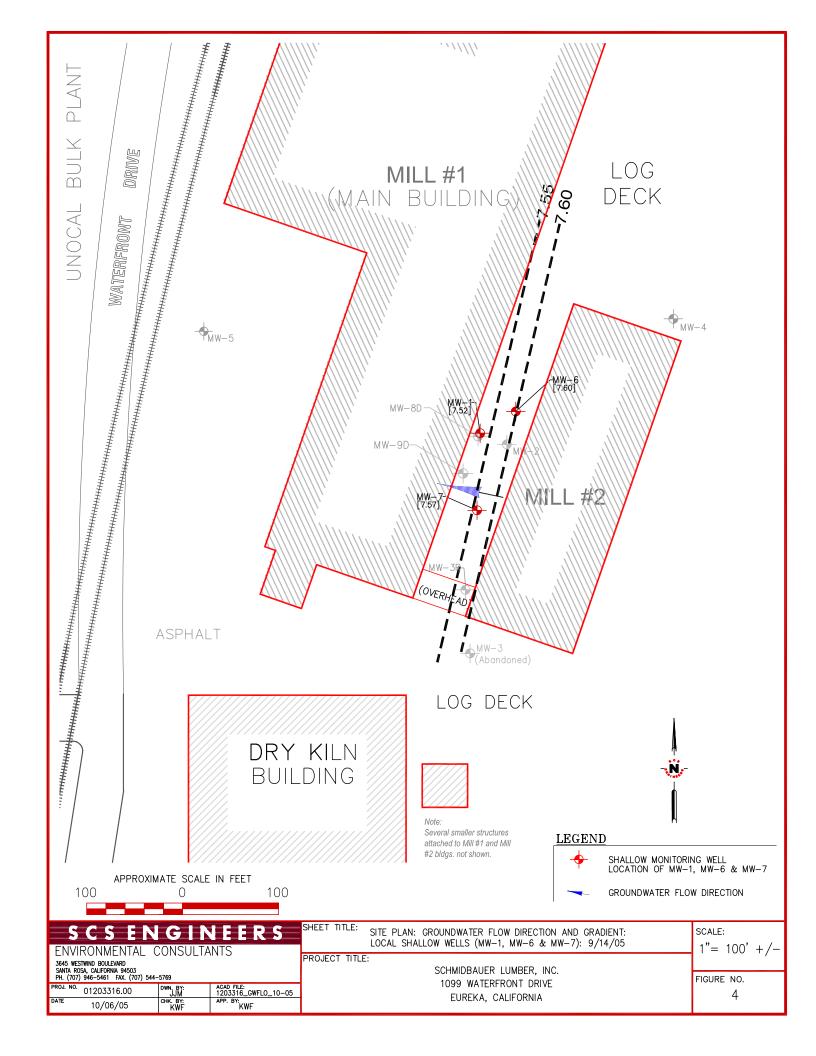


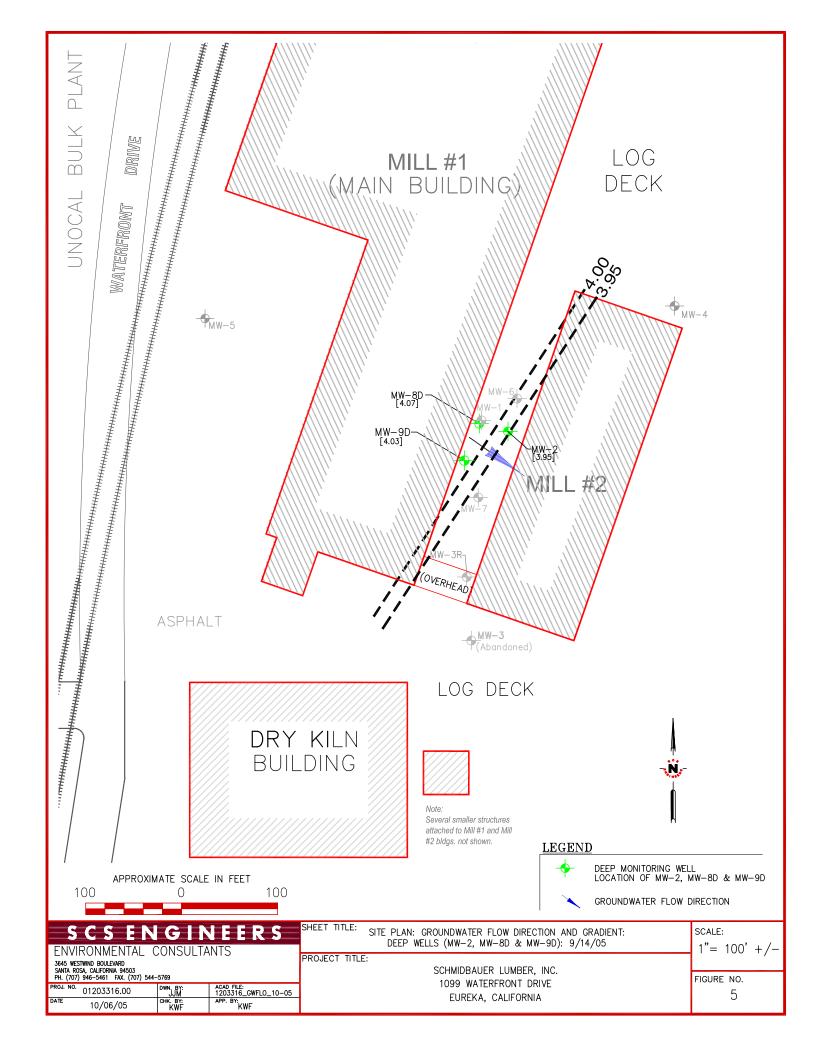


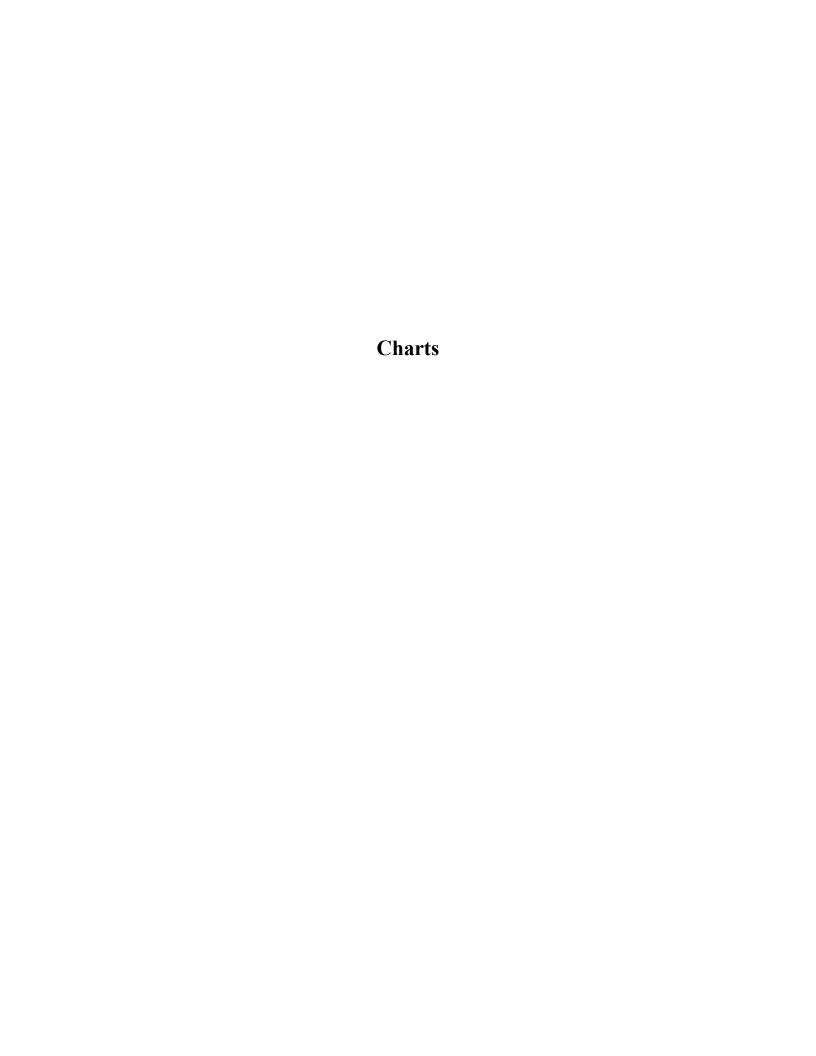


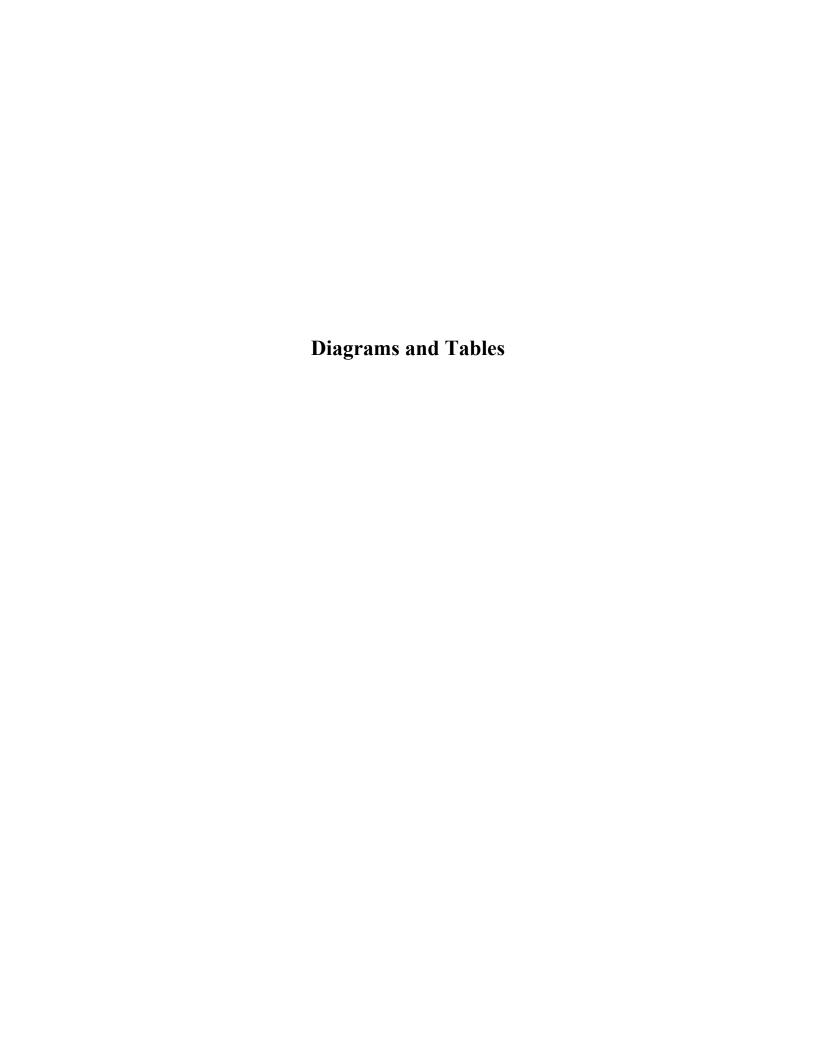












## Key to Diagram and Tables 1099 Waterfront Drive, Eureka, California

# **Key**

PCP = Pentachlorophenol

TOC = Total organic carbon

mg/kg = Milligrams per kilogram

ug/L = Micrograms per liter

mg/L = Milligrams per liter

ND = Not detected

NA = Not analyzed

NR = Not reported

NS = Not sampled

Table 1A: Groundwater Flow Direction and Gradient for Shallow Wells: Site-Wide 1099 Waterfront Drive, Eureka, California

Date	Groundwater Flow Direction (+/- 5°)	Groundwater Gradient (i=ft / ft)	Notes
03/27/99	S50°E	0.002	
06/21/99	S50°W	0.002	
09/27/99	Generally Southwest		
12/22/99	Generally Southeast		
03/16/00	S45°E	0.002	
06/09/00	Northerly	0.002	MW-3 inaccessible (covered with multiple layers of logs)
09/12/00	N15°W	0.002	MW-2 and MW-3 inaccessible (covered with multiple layers of logs / lumber)
12/13/00	S20°W	0.001	
02/06/01	Southerly	0.002	
05/16/01	Southerly to Easterly	0.002	
08/21/01	Southerly	0.004	
11/13/01	Southerly	0.003	
02/12/02	Southerly	0.001	
05/14/02	Southerly	0.003	
08/22/02	Southerly	0.002	
11/20/02	Southerly	0.002	
02/26/03	Southerly	0.002	
05/09/03	Southerly	0.002	
08/19/03	Southerly	0.003	MW-8D installed
10/28/03	Southerly	0.004	Monitoring wells were re-surveyed to msl on October 7, 2003 MW-3 abandoned and replaced with MW-3R
11/20/03	Southerly	0.002	•
02/05/04	S to E	0.001	
05/24/04	Northwesterly	0.003	MW-6 and MW-7 sampled on 6/2/04 (covered by logs on 5/24/04)
09/27/04	Northwesterly	0.002	, , , , , , , , , , , , , , , , , , , ,
12/02/04	West-Northwesterly	0.001	
03/09/05	North-Northwest (N40°W)	0.001	Flow and gradient calculated using MW-3R, MW-4 and MW-5 only.
06/16/05	North-Northwest (N45°W)	0.001	Flow and gradient calculated using MW-3R, MW-4 and MW-5 only.
9/14/2005	West-Northwest (N55°W)	0.001	Flow and gradient calculated using MW-3R, MW-4 and MW-5 only.

Table 1B: Groundwater Flow Direction and Gradient for Shallow Wells: Local (MW-1, MW-6 and MW-7 only) 1099 Waterfront Drive, Eureka, California

Date	<b>Groundwater Flow Direction</b>	<b>Groundwater Gradient</b>	Notes
Date	( +/- 5°)	(i=ft / ft)	Notes
05/16/01	N75°W	0.001	
08/21/01	N30°E	0.001	
11/13/01	N80°W	0.004	
02/12/02	S85°W	0.001	
05/14/02	West (N90°W)	0.001	
08/22/02	S85°W	0.001	
11/20/02	N70°W	0.003	
02/26/03	N70°W	0.002	
05/09/03	N80°W	0.002	
08/19/03	S80°W	0.003	
10/28/03	S75°W	0.003	Monitoring wells were re-surveyed to msl on October 7, 2003
11/20/03	N80°W	0.006	
02/05/04	S80°W	0.001	
05/24/04	West (N90°W)	0.001	
09/27/04	S5°W	0.003	
12/02/04	N75°W	0.002	
03/09/05	N70°W	0.02	
06/16/05	NA <sup>2</sup>	$NA^2$	
09/14/05	N75°W	0.003	

NA<sup>2</sup> - Not available, Well MW-6 in accessible Groundwater flow directions estimated to the nearest 5 degrees.

Table 1C: Groundwater Flow Direction and Gradient for Deep Wells (MW-2, MW-8D, MW-9D) 1099 Waterfront Drive, Eureka, California

Date	Groundwater Flow Direction (+/- 5°)	Groundwater Gradient (ft ./ ft.)	Notes
02/05/04	S55°E	0.005	MW-9D installed (surveyed on February 17, 2004)
05/24/04	S50°E	0.003	
09/27/04	NA <sup>3</sup>	$NA^3$	
12/02/04	S55°E	0.01	
03/09/05	S65°E	0.01	
06/16/05	N30°W	0.001	
09/14/05	S55°E	0.004	

### Footnotes

NA<sup>3</sup> - Not available, Well MW-2 inaccessible

Groundwater flow directions estimated to the nearest 5 degrees.

Table 2: Groundwater Analytical Results - MW-1 1099 Waterfront Drive, Eureka, California

Well ID	Sample Date	Top of Casing Elevation (ft>msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	2,4,6- Trichlorophenol (µg/L)	2,3,5,6- Tetrachlorophenol (µg/L)	2,3,4,6- Tetrachlorophenol (µg/L)	2,3,4,5- Tetrachlorophenol (µg/L)	Pentachlorophenol (μg/L)
	03/27/99	11.17	2.66	8.51	3	38	3,000	<90	5,500
	06/21/99	11.17	3.05	8.12	<10	95	6,100	130	8,000
	09/27/99	11.17	3.59	7.58	9.3	<100	9,900	<100	9,800
	12/22/99	11.17	3.12	8.05	<10	200	3,700	<10	5,500
	03/16/00	11.17	2.81	8.36	<1.0	<1.0	730	<1.0	2,500
	06/09/00	11.17	3.18	7.99	1	<1.0	900	<1.0	3,300
	09/12/00	11.17	3.53	7.64	<1.0	18	300	22	1,100
	12/13/00	11.17	3.22	7.95	<1.0	<1.0	470	<1.0	1,600
	02/06/01	11.17	3.15	8.02	15 <sup>1</sup>	28	<b>8</b> <sup>2</sup>	<1.0	73
	05/16/01	11.17	3.21	7.96	<1.0	<1.0	<1.0	<1.0	55
	08/21/01	11.17	3.66	7.51	<1.0	<1.0	32	1.4	100
	11/13/01	11.17	3.46	7.71	NR	8.	<b>1</b> <sup>2</sup>	1.3	16
	02/12/02	11.17	2.92	8.25	<1.0	<1.0	<1.0	<1.0	<1.0
MW-1	05/14/02	11.17	3.04	8.13	<1.0	<1.0	<1.0	<1.0	1.4
IVI VV - I	08/22/02	11.17	3.48	7.69	<1.0	<1.0	<1.0	<1.0	<1.0
	11/20/02	11.17	3.48	7.69	<1.0	<1.0	<1.0	<1.0	<1.0
	02/26/03	11.17	2.81	8.36	<1.0	<1.0	<1.0	<1.0	<1.0
	05/09/03	11.17	2.67	8.5	<1.0	<1.0	<1.0	<1.0	<1.0
	08/19/03	11.17	3.16	8.01	<1.0	<1.0	<1.0	<1.0	<1.0
	10/28/03	11.17	3.24	7.93	<1.0	<1.0	<1.0	<1.0	<1.0
	11/20/03	11.17	3.06	8.11	<1.0	<1.0	<1.0	<1.0	<1.0
	02/05/04	11.17	2.68	8.49	<1.0	<1.0	<1.0	<1.0	<1.0
	05/24/04	11.17	2.92	8.25	<1.0	<1.0	<1.0	<1.0	<1.0
	09/27/04	11.17	3.27	7.90	<1.0	<1.0	<1.0	<1.0	<1.0
	12/02/04	11.17	3.22	7.95	<1.0	<1.0	<1.0	<1.0	<1.0
	03/09/04	11.17	3.57	7.60	<1.0	<1.0	<1.0	<1.0	<1.0
	06/16/05	11.17	3.11	8.06	<1.0	<1.0	<1.0	<1.0	<1.0
	09/14/05	11.17	3.65	7.52	<1.0	<1.0	<1.0	<1.0	<1.0

Table 3: Groundwater Analytical Results - MW-2 1099 Waterfront Drive, Eureka, California

	Sample	Top of Casing	_	Water Level	2,4,6-	2,3,5,6-	2,3,4,6-	2,3,4,5-	Pentachlorophenol			
Well ID	Date	Elevation	Groundwater	Elevation	Trichlorophenol	Tetrachlorophenol	Tetrachlorophenol	•	(μg/L)			
		(ft>msl)	(feet)	(feet > msl)	(µg/L)	(μg/L)	(µg/L)	(µg/L)	(μg/Σ)			
	03/27/99	10.53	6.05	4.48	< 0.1	0.88	16	< 0.1	35			
	06/21/99	10.53	6.64	3.89	< 0.1	0.97	24	0.66	62			
	09/27/99	10.53	7.61	2.92	<1.0	<1.0	<1.0	<1.0	<1.0			
	12/22/99	10.53	5.89	4.64	<1.0	<1.0	3.8	<1.0	16			
	03/16/00	10.53	6.05	4.48	<1.0	<1.0	<1.0	<1.0	<1.0			
	06/08/00	10.53	7.49	3.04	<1.0	<1.0	<1.0	<1.0	<1.0			
	09/12/00	10.53		Inaccessible, covered by multiple layers of logs/lumber								
	12/13/00	10.53	6.36	4.17	<1.0	<1.0	<1.0	<1.0	<1.0			
	02/06/01	10.53	6.25	4.28	<1.0 1	<1	.0 2	<1.0	<1.0			
	05/16/01	10.53	6.60	3.93	<1.0	<1.0	<1.0	<1.0	<1.0			
	8/21/01 3	10.53	7.52	3.01	<1.0	<1.0	<1.0	<1.0	<1.0			
	11/13/01	10.53	6.01	4.52	NA	NA	NA	<1.0	<1.0			
	02/12/02	10.53	6.12	4.41	NA	NA	NA	NA	NA			
MW-2	05/14/02	10.53	7.53	3.00	<1.0	<1.0	<1.0	<1.0	<1.0			
1V1 VV -2	08/22/02	10.53	Inaccessible, covered by multiple layers of logs/lumber									
	11/20/02	10.53	6.13	4.40	<1.0	<1.0	<1.0	<1.0	<1.0			
	02/26/03	10.53	5.30	5.23	NA	NA	NA	NA	NA			
	05/09/03	10.53	6.07	4.46	<1.0	<1.0	<1.0	<1.0	<1.0			
	08/19/03	10.53	6.53	4.00	NA	NA	NA	NA	NA			
	10/28/03	10.53	5.70	4.83	NA	NA	NA	NA	NA			
	11/20/03	10.53	6.12	4.41	<1.0	<1.0	<1.0	<1.0	<1.0			
	02/05/04	10.53	5.49	5.04	NA	NA	NA	NA	NA			
	05/24/04	10.53	7.12	3.41	<1.0	<1.0	<1.0	<1.0	<1.0			
	09/27/04	10.53				Not sample	d <sup>7</sup>					
	12/02/04	10.53	5.94	4.59	<1.0	<1.0	<1.0	<1.0	<1.0			
	03/09/05	10.53	6.20	4.33	<1.0	<1.0	<1.0	<1.0	<1.0			
	06/16/05	10.53	6.65	3.88	<1.0	<1.0	<1.0	<1.0	<1.0			
	09/14/05	10.53	6.58	3.95	NS	NS	NS	NS	NS			

Table 4: Groundwater Analytical Results - MW-3 1099 Waterfront Drive, Eureka, California

Well ID	Sample Date	Water Level Elevation (feet > msl)	2,4,6- Trichlorophenol (µg/L)	2,3,5,6- Tetrachlorophenol (µg/L)	2,3,4,6- Tetrachlorophenol (µg/L)	2,3,4,5- Tetrachlorophenol (µg/L)	Pentachlorophenol (μg/L)				
	03/27/99	7.82	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1				
	06/21/99	3.50	< 0.1	< 0.1	< 0.1	< 0.1	0.31				
	09/27/99	6.65	<1.0	<1.0	16	<1.0	0.31				
	12/22/99	7.50	<1.0	<1.0	<1.0	<1.0	<1.0				
	03/16/00	7.85	<1.0	<1.0	<1.0	<1.0	<1.0				
	06/08/00	Inaccessible; Well covered by multiple layers of logs/lumber									
	09/12/00	Inaccessible; Well covered by multiple layers of logs/lumber									
	12/13/00	7.65	<1.0	<1.0	<1.0	<1.0	<1.0				
	02/06/01	7.48	<1.0	<1	.0 2	<1.0	<1.0				
MW-3	5/16/01 4	7.43	NA	NA	NA	NA	NA				
1V1 VV -3	08/21/01	6.88	<1.0	<1.0	<1.0	<1.0	<1.0				
	11/13/01	7.01	NA	NA	NA	NA	NA				
	02/12/02	7.55	NA	NA	NA	NA	NA				
	05/14/02	7.38	NA	NA	NA	NA	NA				
	08/22/02		Inacce	essible; Well covered	by multiple layers of	logs/lumber					
	11/20/02	7.18	NA	NA	NA	NA	NA				
	02/26/03	7.82	NA	NA	NA	NA	NA				
	05/09/03	7.96	NA	NA	NA	NA	NA				
	08/19/03	7.14	<1.0	<1.0	<1.0	<1.0	<1.0				
	10/28/03		Well	Abandoned Septemb	er 2003 and replaced	by MW-3R					

Table 5: Groundwater Analytical Results - MW-3R 1099 Waterfront Drive, Eureka, California

Well ID	Sample Date	Top of Casing Elevation (ft>msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	2,4,6- Trichlorophenol (µg/L)	2,3,5,6- Tetrachlorophenol (µg/L)	2,3,4,6- Tetrachlorophenol (µg/L)	2,3,4,5- Tetrachlorophenol (µg/L)	Pentachlorophenol (μg/L)
	10/28/03 4	10.49	3.22	7.27	<1.0	<1.0	<1.0	<1.0	<1.0
	11/20/03	10.49	2.83	7.66	NA	NA	NA	NA	NA
	02/05/04	10.49	2.24	8.25	NA	NA	NA	NA	NA
	05/24/04	10.49	2.46	8.03	NA	NA	NA	NA	NA
MW-3R	09/27/04	10.49	2.84	7.65	<1.0	<1.0	<1.0	<1.0	<1.0
	12/02/04	10.49	2.69	7.80	NA	NA	NA	NA	NA
	03/09/05	10.49	2.50	7.99	NA	NA	NA	NA	NA
	06/16/05	10.49	2.50	7.99	<1.0	<1.0	<1.0	<1.0	<1.0
	09/14/05	10.49	3.04	7.45	<1.0	<1.0	<1.0	<1.0	<1.0

Table 6: Groundwater Analytical Results - MW-4 1099 Waterfront Drive, Eureka, California

Well ID	Sample Date	Top of Casing Elevation (ft>msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	2,4,6- Trichlorophenol (µg/L)	2,3,5,6- Tetrachlorophenol (µg/L)	2,3,4,6- Tetrachlorophenol (µg/L)	2,3,4,5- Tetrachlorophenol (µg/L)	Pentachlorophenol (μg/L)
	03/27/99	10.06	2.14	7.92	< 0.1	< 0.1	0.12	< 0.1	0.3
	06/21/99	10.06	2.28	7.78	< 0.1	0.21	1.2	< 0.1	3.0
	09/27/99	10.06	2.53	7.53	<1.0	<1.0	<1.0	<1.0	<1.0
	12/22/99	10.06	2.29	7.77	<1.0	<1.0	<1.0	<1.0	<1.0
	03/16/00	10.06	2.01	8.05	<1.0	<1.0	<1.0	<1.0	<1.0
	06/09/00	10.06	2.28	7.78	<1.0	<1.0	<1.0	<1.0	<1.0
	09/12/00	10.06	2.45	7.61	<1.0	<1.0	<1.0	<1.0	1.8
	12/13/00	10.06	2.10	7.96	NA	NA	NA	NA	NA
	02/06/01	10.06	2.09	7.97	<1.0 1	<1	.0 2	<1.0	<1.0
	5/16/01 4	10.06	2.70	7.36	NA	NA	NA	NA	NA
	08/21/01	10.06	2.51	7.55	<1.0	<1.0	<1.0	<1.0	<1.0
	11/13/01	10.06	2.09	7.97	NA	NA	NA	NA	NA
	02/12/02	10.06	1.87	8.19	NA	NA	NA	NA	NA
MW-4	05/14/02	10.06	2.15	7.91	NA	NA	NA	NA	NA
1V1 VV4	08/22/02	10.06	2.00	8.06	<1.0	<1.0	<1.0	<1.0	<1.0
	11/20/02	10.06	2.36	7.70	NA	NA	NA	NA	NA
	02/26/03	10.06	1.99	8.07	NA	NA	NA	NA	NA
	05/09/03	10.06	1.86	8.20	NA	NA	NA	NA	NA
	08/19/03	10.06	2.15	7.91	<1.0	<1.0	<1.0	<1.0	<1.0
	10/28/03	10.06	2.00	8.06	NA	NA	NA	NA	NA
	11/20/03	10.06	1.92	8.14	NA	NA	NA	NA	NA
	02/05/04	10.06	1.91	8.15	NA	NA	NA	NA	NA
	05/24/04	10.06	2.03	8.03	NA	NA	NA	NA	NA
	09/27/04	10.06	2.27	7.79	<1.0	<1.0	<1.0	<1.0	<1.0
	12/02/04	10.06	2.27	7.79	NA	NA	NA	NA	NA
	03/09/05	10.06	2.13	7.93	NA	NA	NA	NA	NA
	06/16/05	10.06	2.11	7.95	<1.0	<1.0	<1.0	<1.0	<1.0
	09/14/05	10.06	2.59	7.47	<1.0	<1.0	<1.0	<1.0	<1.0

Table 7: Groundwater Analytical Results - MW-5 1099 Waterfront Drive, Eureka, California

Well ID	Sample Date	Top of Casing Elevation (ft>msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	2,4,6- Trichlorophenol (µg/L)	2,3,5,6- Tetrachlorophenol (µg/L)	2,3,4,6- Tetrachlorophenol (µg/L)	2,3,4,5- Tetrachlorophenol (µg/L)	Pentachlorophenol (μg/L)
	03/27/99	10.03	1.43	8.60	< 0.1	< 0.1	< 0.1	< 0.1	0.14
	06/21/99	10.03	2.81	7.22	<0.1	<0.1	0.38	< 0.1	1
	09/27/99	10.03	3.19	6.84	<1.0	<1.0	<1.0	<1.0	<1.0
	12/22/99	10.03	2.30	7.73	<1.0	<1.0	<1.0	<1.0	<1.0
	03/16/00	10.03	1.15	8.88	<1.0	<1.0	<1.0	<1.0	<1.0
	06/09/00	10.03	2.31	7.72	<1.0	<1.0	<1.0	<1.0	<1.0
	09/12/00	10.03	3.18	6.85	<1.0	<1.0	<1.0	<1.0	<1.0
	12/13/00	10.03	2.24	7.79	<1.0	<1.0	<1.0	<1.0	<1.0
	02/06/01	10.03	2.33	7.70	<1.0 1	<1	.0 2	<1.0	<1.0
	5/16/014	10.03	2.33	7.70	NA	NA	NA	NA	NA
	08/21/01	10.03	3.24	6.79	<1.0	<1.0	<1.0	<1.0	<1.0
	11/13/01	10.03	1.90	8.13	NA	NA	NA	NA	NA
	02/12/02	10.03	2.14	7.89	NA	NA	NA	NA	NA
MW-5	05/14/02	10.03	2.65	7.38	NA	NA	NA	NA	NA
141 44 -3	08/22/02	10.03	3.10	6.93	<1.0	<1.0	<1.0	<1.0	<1.0
	11/20/02	10.03	2.74	7.29	NA	NA	NA	NA	NA
	02/26/03	10.03	2.09	7.94	NA	NA	NA	NA	NA
	05/09/03	10.03	1.77	8.26	NA	NA	NA	NA	NA
	08/19/03	10.03	2.66	7.37	<1.0	<1.0	<1.0	<1.0	<1.0
	10/28/03	10.03	2.54	7.49	NA	NA	NA	NA	NA
	11/20/03	10.03	1.92	8.11	NA	NA	NA	NA	NA
	02/05/04	10.03	1.65	8.38	NA	NA	NA	NA	NA
	05/24/04	10.03	2.43	7.60	NA	NA	NA	NA	NA
	09/27/04	10.03	2.74	7.29	<1.0	<1.0	<1.0	<1.0	<1.0
	12/02/04	10.03	2.38	7.65	NA	NA	NA	NA	NA
	03/09/05	10.03	2.35	7.68	NA	NA	NA	NA	NA
	06/16/05	10.03	2.50	7.53	<1.0	<1.0	<1.0	<1.0	<1.0
	09/14/05	10.03	3.08	6.95	<1.0	<1.0	<1.0	<1.0	<1.0

Table 8: Groundwater Analytical Results - MW-6 1099 Waterfront Drive, Eureka, California

Well ID	Sample Date	Top of Casing Elevation (ft>msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	2,4,6- Trichlorophenol (µg/L)	2,3,5,6- Tetrachlorophenol (µg/L)	2,3,4,6- Tetrachlorophenol (µg/L)	2,3,4,5- Tetrachlorophenol (µg/L)	Pentachlorophenol (μg/L)
	02/06/01	10.71	2.75	7.96	4.5	<1	.0 2	<1.0	<1.0
	05/16/01	10.71	2.71	8.00	<1.0	<1.0	<1.0	<1.0	6.1
	08/21/01	10.71	3.24	7.47	<1.0	<1.0	<1.0	<1.0	<1.0
	11/13/01	10.71	2.87	7.84	NR	<1	.0 2	<1.0	<1.0
	02/12/02	10.71	2.41	8.30	<1.0	<1.0	<1.0	<1.0	<1.0
	05/14/02	10.71	2.51	8.20	<1.0	<1.0	<1.0	<1.0	<1.0
	08/22/02	10.71	2.98	7.73	<1.0	<1.0	<1.0	<1.0	<1.0
	11/20/02	10.71	2.96	7.75	<1.0	<1.0	<1.0	<1.0	<1.0
	02/26/03	10.71	2.31	8.40	<1.0	<1.0	<1.0	<1.0	<1.0
MW-6	05/09/03	10.71	2.16	8.55	<1.0	<1.0	<1.0	<1.0	<1.0
IVI VV -0	08/19/03	10.71	2.59	8.12	<1.0	<1.0	<1.0	<1.0	<1.0
	10/28/03	10.71	2.67	8.04	<1.0	<1.0	<1.0	<1.0	<1.0
	11/20/03	10.71	2.49	8.22	<1.0	<1.0	<1.0	<1.0	<1.0
	02/05/04	10.71	2.18	8.53	<1.0	<1.0	<1.0	<1.0	<1.0
	06/02/04 6	10.71	2.38	8.33	<1.0	<1.0	<1.0	<1.0	<1.0
	09/27/04	10.71	2.74	7.97	<1.0	<1.0	<1.0	<1.0	<1.0
	12/02/04	10.71	2.70	8.01	<1.0	<1.0	<1.0	<1.0	<1.0
	03/09/05	10.71	2.56	8.15	<1.0	<1.0	<1.0	<1.0	<1.0
	06/16/05	10.71	NM	NM	NA	NA	NA	NA	NA
	09/14/05	10.71	3.11	7.60	<1.0	<1.0	<1.0	<1.0	<1.0

Table 9: Groundwater Analytical Results - MW-7 1099 Waterfront Drive, Eureka, California

Well ID	Sample Date	Top of Casing Elevation (ft>msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	2,4,6- Trichlorophenol (µg/L)	2,3,5,6- Tetrachlorophenol (µg/L)	2,3,4,6- Tetrachlorophenol (μg/L)	2,3,4,5- Tetrachlorophenol (µg/L)	Pentachlorophenol (μg/L)
	02/06/01	10.76	2.79	7.97	<1.0	<1.0 <sup>2</sup>		<1.0	<1.0 5
	05/16/01	10.76	2.78	7.98	<1.0	<1.0	<1.0	<1.0	<1.0
	08/21/01	10.76	3.19	7.57	<1.0	<1.0	<1.0	<1.0	<1.0
	11/13/01	10.76	3.10	7.66	NR	<1	.02	<1.0	<1.0
	02/12/02	10.76	2.52	8.24	<1.0	<1.0	<1.0	<1.0	<1.0
	05/14/02	10.76	2.63	8.13	<1.0	<1.0	<1.0	<1.0	<1.0
	08/22/02	10.76	3.06	7.7	<1.0	<1.0	<1.0	<1.0	<1.0
	11/20/02	10.76	3.03	7.73	<1.0	<1.0	<1.0	<1.0	<1.0
	02/26/03	10.76	2.37	8.39	<1.0	<1.0	<1.0	<1.0	<1.0
MW-7	05/09/03	10.76	2.24	8.52	<1.0	<1.0	<1.0	<1.0	<1.0
141 44 /	08/19/03	10.76	2.79	7.97	<1.0	<1.0	<1.0	<1.0	<1.0
	10/28/03	10.76	2.89	7.87	<1.0	<1.0	<1.0	<1.0	<1.0
	11/20/03	10.76	2.69	8.07	<1.0	<1.0	<1.0	<1.0	<1.0
	02/05/04	10.76	2.29	8.47	<1.0	<1.0	<1.0	<1.0	<1.0
	06/02/04 6	10.76	2.50	8.26	<1.0	<1.0	<1.0	<1.0	<1.0
	09/27/04	10.76	2.86	7.90	<1.0	<1.0	<1.0	<1.0	<1.0
	12/02/04	10.76	2.79	7.97	<1.0	<1.0	<1.0	<1.0	<1.0
	03/09/05	10.76	2.62	8.14	<1.0	<1.0	<1.0	<1.0	<1.0
	06/16/05	10.76	2.64	8.12	<1.0	<1.0	<1.0	<1.0	<1.0
	09/14/05	10.76	3.19	7.57	<1.0	<1.0	<1.0	<1.0	<1.0

Table 10: Groundwater Analytical Results - MW-8D 1099 Waterfront Drive, Eureka, California

Well ID	Sample Date	Top of Casing Elevation (ft>msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	2,4,6- Trichlorophenol (µg/L)	2,3,5,6- Tetrachlorophenol (µg/L)	2,3,4,6- Tetrachlorophenol (µg/L)	2,3,4,5- Tetrachlorophenol (µg/L)	Pentachlorophenol (µg/L)
	10/28/03	11.15	6.13	5.02	<1.0	<1	.5 <sup>2</sup>	<1.0	6.6
	11/20/03	11.15	6.57	4.58	<1.0	<1.0	<1.0	<1.0	<1.0
	02/05/04	11.15	5.96	5.19	<1.0	<1.0	<1.0	<1.0	<1.0
	05/24/04	11.15	7.63	3.52	<1.0	<1.0	<1.0	<1.0	<1.0
MW-8D	09/27/04	11.15	6.88	4.27	<1.0	<1.0	<1.0	<1.0	<1.0
	12/02/04	11.15	6.42	4.73	<1.0	<1.0	<1.0	<1.0	<1.0
	03/09/05	11.15	6.72	4.43	<1.0	<1.0	<1.0	<1.0	<1.0
	06/16/05	11.15	7.25	3.90	<1.0	<1.0	<1.0	<1.0	<1.0
	09/14/05	11.15	7.08	4.07	<1.0	<1.0	<1.0	<1.0	<1.0

Table 11: Groundwater Analytical Results - MW-9D 1099 Waterfront Drive, Eureka, California

Well ID	Sample Date	Top of Casing Elevation (ft>msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	7 7	2,3,5,6- Tetrachlorophenol (µg/L)	2,3,4,6- Tetrachlorophenol (µg/L)	2,3,4,5- Tetrachlorophenol (µg/L)	Pentachlorophenol (μg/L)
	02/05/04	11.01	5.86	5.15	<1.0	<1.0	1.9	<1.0	12
	05/24/04	11.01	7.53	3.48	<1.0	<1.0	<1.0	<1.0	<1.0
	09/27/04	11.01	6.78	4.23	<1.0	<1.0	<1.0	<1.0	<1.0
MW-9D	12/02/04	11.01	6.32	4.69	<1.0	<1.0	<1.0	<1.0	<1.0
	03/09/05	11.01	6.75	4.26	<1.0	<1.0	<1.0	<1.0	<1.0
	06/16/05	11.01	7.09	3.92	<1.0	<1.0	<1.0	<1.0	<1.0
	09/14/05	11.01	6.98	4.03	<1.0	<1.0	<1.0	<1.0	<1.0

#### **Footnotes**

- 1 Analytical method yields total trichlorophenols as conducted by Analytical Sciences
- 2 Co-elution
- 3 Well converted to semi-annual sampling program per 3/25/01 NCRWQCB letter
- 4 Well converted to annual sampling program per 3/15/01 NCRWQCB letter
- 5 Laboratory reports presence of pentachlorophenol below normal laboratory reporting limits
- 6 Wells inaccessible 5/27/04. Depth to water measured 6/2/04
- 7 Well inaccessible.
- NA Not Analyzed
- NR Not Reported
- NM Not Measured
- NS Not Sampled

Table 12: Groundwater Analytical Results - Trihalomethanes: June 2005 1099 Waterfront Drive, Eureka, California

Sample Date	Well ID	Chloroform	Dibromodichloromethane	Dibromochloromethane	Bromoform
	MW-1	<1.0	<1.0	<1.0	<1.0
	MW-2	<1.0	<1.0	<1.0	<1.0
	MW-3R	<1.0	<1.0	<1.0	<1.0
	MW-4	<1.0	<1.0	<1.0	<1.0
06/16/05	MW-5	<1.0	<1.0	<1.0	<1.0
	MW-6	NA	NA	NA	NA
	MW-7	<1.0	<1.0	<1.0	<1.0
	MW-8D	<1.0	<1.0	<1.0	<1.0
	MW-9D	<1.0	<1.0	<1.0	<1.0

NA - Not Analyzed, well inaccessible

# Appendix A Well Purge Records, dated 14 September 2005

_	S E N	IGIN	NEEF	R S		WELL PURGE RECORD 2005 - 3rd Quarter					WELL NUMBER  MW- 1		
PROJECT	S	Schmidbau	ıer Lumbe	er		JOB NUMBE. 01203	R 3 <b>16.00</b>	SITE 1099 V	Vaterfront		RECORDED BY  Bruce Taverner		
SUBMERS BAILER	PURGING METHOD SAMPLING METHOD  HAND PUMP SUBMERSIBLE PUMP X BAILER X OTHER						PURGING CRITERIA Minimum of 3 wetted casing volumes (or 5 gallons minim for 2" dia. wells), until water parameters (pH, temp., cond.) have stabilized (±10%), or until dry.  REMARKS  * Oil/water interface probe used to check for NAPLs;						
CASING DEPTH T WATEI NAPL: NAPL TH SCREEN TOP: BOTTO TOTAL D Diameters in	CASING DIAMETER (Dc): 4.0  DEPTH TO:  WATER (h): 3.65  NAPL: n.a.*  NAPL THICKNESS: n.a.*				GROUND (E) SURFACE (E) H TD <sub>C</sub> SCREEN INTERVAL	WEATHE TAGGED TAGGED PURGE V DEPTH T TIME OF DEPTH T APPEARA LABORA	WATER LEV WELL DEPT OLUME (3 C O WATER FO SAMPLING: O WATER A' ANCE OF SAI FORY:	TH FROM TO ASING VOLU OR 80% REC T TIME OF S MPLE:	C:	9/14/2005  Overcast  3.65 / 3.65  10  11.4 gallons  4.81 ft. below TOC  18:25  3.86 ft. below TOC  Clear  Analytical Sciences  YTICAL INFORMATION.			
	PURGING DATA TO			JLATIVE REMOVED		WATER	CHARACTE		DISSOLVED	COMMENTS			
DATE	BEGIN	FINISH	WATER REMOVED (GAL)	GAL	CASING VOLUMES	рН	TIVITY (mmhos/cm)	TURBIDITY (NTU)	TEMPER- ATURE (°C)	OXYGEN (ppm)			
9/14/05	18:14	18:15	1	1	0.26	7.63	0.373	76	16.9	0.08			
9/14/05	18:15	18:16	2	3	0.79	7.46	0.318	32	18.0	0.07			
9/14/05	18:16	18:17	2	5	1.32	7.37	0.332	39	18.4	0.06			
9/14/05	18:17	18:18	2	7	1.84	7.38	0.353	65	18.6	0.05			
						1							
					-								
					-	<b>_</b>							
						1							

	S E N	G   1	NEEF	RS		20	PURGE 05 - 3rd Qu	ıarter	RD		WELL NUMBER  MW- 3R		
PROJECT	S	Schmidbau	ıer Lumbe	r		JOB NUMBE. 01203	R 316.00	SITE 1099 V	Vaterfront		RECORDED BY  Bruce Taverner		
SUBMERS BAILER	PURGING METHOD SAMPLING METHOD  HAND PUMP SUBMERSIBLE PUMP X BAILER X OTHER						PURGING CRITERIA Minimum of 3 wetted casing volumes (or 5 gallons minim for 2" dia. wells), until water parameters (pH, temp., cond.) have stabilized (±10%), or until dry.  REMARKS  * Oil/water interface probe used to check for NAPLs;						
CASING DEPTH T WATEL NAPL: NAPL TH SCREEN TOP:	CASING DIAMETER (D <sub>c</sub> ): 2.0  DEPTH TO:  WATER (h): 3.04  NAPL: n.a.*  NAPL THICKNESS: n.a.*  SCREEN DEPTH:  TOP: 3.0  BOTTOM: 13.0  TOTAL DEPTH (TD <sub>c</sub> ): 13.00  Diameters in (inches): Depths in (feet)  ONE CASING VOLUME:  [TD <sub>c</sub> - H] [3.14 (D <sub>c</sub> / 2) <sup>2</sup> ] [7.48 gal/ft <sup>2</sup> ]: 1.54 gallons				GROUND (E) SURFACE (E) H TD <sub>C</sub>	WEATHE TAGGED TAGGED PURGE V DEPTH T TIME OF	WATER LEV WELL DEPT OLUME (3 C O WATER FO SAMPLING:	TH FROM TO ASING VOLU OR 80% REC	C: JMES): CHARGE:	4. 4.93 f	0/14/2005 Overcast .04 / 3.04 12.74 6 gallons it. below TOC		
Diameters in					SCREEN INTERVAL	DEPTH TO WATER AT TIME OF SAMPLING  APPEARANCE OF SAMPLE:  LABORATORY:  SEE CHAIN OF CUSTODY FORM FOR ANAL				Slightly cloudy Analytical Sciences			
DATE	PURGIN	ME FINISH	WATER REMOVED (GAL)		CASING VOLUMES	рН	CONDUC- TIVITY (mmhos/cm)	TURBIDITY (NTU)	TEMPER- ATURE (°C)	DISSOLVED OXYGEN (ppm)	COMMENTS		
9/14/05	17:03	17:04	1	1	0.65	7.53	0.637	604	14.9	0.17			
9/14/05	17:04 17:05	17:05 17:07	2	3 5	1.95 3.24	7.26 7.28	0.612 0.646	226 83	15.0 15.0	0.07			
,													

S C	S E N	1 G I 1	NEEF	RS			PURGE 005 - 3rd Qu		WELL NUMBER  MW- 4			
PROJECT						JOB NUMBE		SITE			RECORDED BY	
	5	Schmidbau	ier Lumbe	r		01203	316.00	1099 V	Vaterfront	Drive	<b>Bruce Taverner</b>	
HAND PUI SUBMERS BAILER OTHER	MP SIBLE PUMP	<i>MET</i>	GING HOD	SAMPLIN METHOL	— —	(±10%), (	RITERIA Min. wells), und or until dry.	til water pa	rameters (	pH, temp., o	s (or 5 gallons minimur cond.) have stabilized	
CASING	DIAMETER	(D <sub>c</sub> ):2.0	)		1 -	DATE OF	SAMPLING:			9	0/14/2005	
DEPTH 1	TO:			$\rightarrow$ D <sub>C</sub>		WEATHE	:R:			(	Overcast	
WATE	R (h):	2.5	9 🔻	<u></u>	SURFACE (E)	TAGGED	WATER LEV	/ELS FROM	TOC:	2	.59 / 2.59	
NAPL:		n.a	* -0.44				WELL DEPT				9.6	
NAPL TH	ICKNESS:	n.a	****							3		
SCREEN	DEPTH:			h	H		OLUME (3 C		<i>'</i> —		4 gallons	
TOP:	<b>5</b> 2	3.0	)		$TD_{c}$		O WATER FO	OR 80% REC	CHARGE:	3.981	ft. below TOC	
BOTT	OM:	10.	0 -	<u>                                     </u>	<u> </u>	TIME OF	SAMPLING:				16:45	
	)EPTH (TD	-		<u> </u>		DEPTH T	O WATER A	T TIME OF S	AMPLING:	2.83 1	ft. below TOC	
	•			1==	SCREEN INTERVAL	APPEARA	ANCE OF SAI	MPLE:			Clear	
	n (inches) : De					LABORA	TORY:			Analy	tical Sciences	
	NG VOLUME 3.14 (D <sub>c</sub> / 2) <sup>2</sup> ]		1.14 gallor	ns	3	SEE CHA	IN OF CUST	ODY FORM I	FOR ANALY	TICAL INFOR	RMATION.	
					JLATIVE REMOVED		WATER	CHARACTE	ERISTICS		COMMENTS	
DATE	TII BEGIN	ME FINISH	WATER REMOVED (GAL)	GAL	CASING VOLUMES	pН	CONDUC- TIVITY (mmhos/cm)	TURBIDITY (NTU)	TEMPER- ATURE (°C)	DISSOLVED OXYGEN (ppm)		
9/14/05	16:30	16:31	1	1	0.88	7.48	0.520	991	17.4	0.08	Well Dry	
9/14/05	16:31	16:32	0	1	0.88	n.r.	n.r.	n.r.	n.r.	n.r.	Recharge	
9/14/05	16:32	16:33	1	2	1.76	7.43	0.566	665	17.4	0.06	Well Dry	
											•	
9/14/05	16:33	16:35	0	2	1.76	n.r.	n.r.	n.r.	n.r.	n.r.	Recharge	
9/14/05	16:35	16:36	1	3	2.64	7.42	0.589	447	17.4	0.06	Well Dry	
9/14/05	16:36	16:38	0	3	2.64	n.r.	n.r.	n.r.	n.r.	n.r.	Recharge	
9/14/05	16:38	16:39	1	4	3.52	7.44	0.591	322	17.5	0.06	Well Dry	
9/14/05	16:39	16:41	0	4	3.52	n.r.	n.r.	n.r.	n.r.	n.r.	Recharge	
9/14/05	16:41	16:42	1	5	4.40	7.46	0.582	328	17.4	0.06	Well Dry	
				<del>                                     </del>								
				<u> </u>		<u> </u>						
		l	L		1		1				L	

S C	SEN	I G I I	NEEF	R S			PURGE 005 - 3rd Qu		RD		WELL NUMBER  MW- 5	
PROJECT	_					JOB NUMBE		SITE		RECORDED BY		
	S	Schmidbau	ier Lumbe	er			316.00		Vaterfront		Bruce Taverner	
HAND PUI SUBMERS BAILER OTHER	MP SIBLE PUMP	MET	GING 'HOD	SAMPLIN METHOL	) 	(±10%), (	RITERIA Min. wells), unto until dry.	til water pa	rameters (	pH, temp., o	s (or 5 gallons minimur cond.) have stabilized	
CASING	DIAMETER	(D <sub>c</sub> ): 2.0	)			DATE OF	SAMPLING:			9	)/14/2005	
DEPTH 1	TO:			$\rightarrow$ D <sub>C</sub>		WEATHE	R:			(	Overcast	
WATE	R (h):	3.0	8 💆	<u> </u>	GROUND (E)	TAGGED	WATER LEV	ELS FROM	TOC:	3	.08 / 3.08	
NAPL:		n.a	<u>*</u> -0.47	不開			WELL DEPT				9.48	
NAPL TH	ICKNESS:	n.a								2		
SCREEN				h	H		OLUME (3 C.		· —		2 gallons	
TOP: 3.0 [] [] TD <sub>c</sub>					DEPTH T	O WATER FO	OR 80% REC	CHARGE:	4.37 1	ft. below TOC		
BOTTO	OM·	10.	 0 -	<u>                                     </u>	<u> </u>	TIME OF	SAMPLING:				16:12	
	)EPTH (TD <sub>o</sub>			<u> </u>		DEPTH T	O WATER A	T TIME OF S	AMPLIN <u>G:</u>	3.121	ft. below TOC	
			<u> </u>	1	SCREEN INTERVAL	APPEARA	ANCE OF SAI	MPLE:			Clear	
	n (inches) : De	,			:  <del>_</del>	LABORA	TORY:			Analy	tical Sciences	
ONE CASI [TD <sub>c</sub> - H] [3	NG VOLUME 3.14 (D <sub>c</sub> / 2) <sup>2</sup> ]	: [7.48 gal/ft³]:	1.05 gallor	ns	•	SEE CHA	IN OF CUST	ODY FORM I	FOR ANALY	TICAL INFOR	RMATION.	
					JLATIVE REMOVED		WATER	CHARACTE	RISTICS		COMMENTS	
DATE	TIN	ME FINISH	WATER REMOVED (GAL)	GAL	CASING VOLUMES	pН	CONDUC- TIVITY (mmhos/cm)	TURBIDITY (NTU)	TEMPER- ATURE (°C)	DISSOLVED OXYGEN (ppm)		
9/14/05	16:02	16:03	1	1	0.95	7.28	0.404	317	12.9	0.29		
9/14/05	16:03	16:04	1	2	1.90	6.83	0.425	223	18.0	0.06	Well Dry	
9/14/05	16:04	16:06	0	2	1.90	n.r.	n.r.	n.r.	n.r.	n.r.	Recharge	
											Recharge	
9/14/05	16:06	16:07	2	4	3.80	6.88	0.436	63	18.6	0.01		
9/14/05	16:07	16:08	1	5	4.75	6.89	0.438	81	18.6	0.03		
					+							
L						ļ					<u> </u>	

	S E N	IG I I	NEEF	RS		20	PURGE 005 - 3rd Qu	ıarter	RD		WELL NUMBER  MW- 6
PROJECT			T 1			JOB NUMBE		SITE	<b>V</b> 4 C		RECORDED BY
		Schmidbau	ier Lumbe	r			316.00		Vaterfront		Bruce Taverner
HAND PUN SUBMERS BAILER OTHER	MP BIBLE PUMP	MET	GING HOD X	SAMPLIN METHOL		for 2" dia (±10%), o	er interface	til water pa	rameters (	pH, temp., o	es (or 5 gallons minimur cond.) have stabilized
CASING I	DIAMETER	(D <sub>c</sub> ): 2.0	)			DATE OF	SAMPLING:			9	9/14/2005
	DEPTH TO:						R:			(	Overcast
WATER	R (h):	3.1	1 💆	<u></u>	SURFACE (E)	TAGGED	WATER LEV	ELS FROM	TOC:	3	.11 / 3.11
NAPL:		n.a	* -0.49				WELL DEPT				8.93
NAPL TH	ICKNESS:	n.a					OLUME (3 C			3	1 gallons
SCREEN	SCREEN DEPTH:										
TOP:						O WATER FO	JR 80% REC	HARGE:	4.391	ft. below TOC	
вотто	DM:	10.	0 -	<u>▼</u>    <u>▼</u>	: _★		SAMPLING:				17:56
TOTAL D	EPTH (TD <sub>c</sub>	:): 10.0	00		SCREEN		O WATER A		AMPLIN <u>G:</u>	3.111	ft. below TOC
	Diameters in (inches) : Depths in (feet)				APPEARA	ANCE OF SAI	MPLE:			Clear	
ONE CASII	NG VOLUME	:			:	LABORA	TORY:			Analy	tical Sciences
[TD <sub>c</sub> - H] [3	5.14 (D <sub>C</sub> / 2) <sup>2</sup> ]	[7.48 gal/ft³]:	1.04 gallor			SEE CHA	SEE CHAIN OF CUSTODY FORM FOR ANALYTICAL INFORMATION.				
	PURGING DATA T				JLATIVE REMOVED		WATER	CHARACTE	RISTICS	T	COMMENTS
DATE ·	BEGIN	FINISH	WATER REMOVED (GAL)	GAL	CASING VOLUMES	рН	CONDUC- TIVITY (mmhos/cm)	TURBIDITY (NTU)	TEMPER- ATURE (°C)	DISSOLVED OXYGEN (ppm)	
9/14/05	17:50	17:51	1	1	0.96	7.70	0.284	292	15.7	0.13	
9/14/05	17:51	17:52	2	3	2.87	7.54	0.355	94	16.3	0.07	
9/14/05	17:52	17:53	2	5	4.79	7.42	0.365	32	16.4	0.06	
					-						
1											

S C	S E N	G   1	NEEF	R S			PURGE 05 - 3rd Qu	_	RD		WELL NUMBER  MW- 7
PROJECT						JOB NUMBER		SITE			RECORDED BY
		Schmidbau	er Lumbe	r			316.00		Vaterfront		Bruce Taverner
HAND PUI SUBMERS BAILER	MP SIBLE PUMP	<i>MET</i>	GING HOD	SAMPLIN METHOL	— —	(±10%), o	or until dry. er interface				es (or 5 gallons minimun cond.) have stabilized MLE = Meter Limit
OTHER						Lacceded					
	DIAMETER	(D <sub>c</sub> ):2.0	)	→ D <sub>C</sub>	<b>←</b>		SAMPLING:		_	9	9/14/2005
DEPTH 1		0.4	. •		GROUND (E)	WEATHE	R:				Overcast
WATE		3.1				TAGGED	WATER LEV	ELS FROM	TOC:	3	3.19 / 3.19
NAPL:		n.a	-0.54	h		TAGGED	WELL DEPT	H FROM TO	C:		9.57
	ICKNESS:	n.a	<u></u>	h	н	PURGE V	OLUME (3 C	ASING VOLU	JMES):	3	.1 gallons
SCREEN TOP:	DEPTH:	3.0	1		$TD_{c}$	DEPTH T	O WATER FO	OR 80% REC	HARGE:	4.44	ft. below TOC
BOTTO	ΔM·	10.		<u> </u>		TIME OF	SAMPLING:				17:35
		-				DEPTH T	O WATER A	T TIME OF S	AMPLING:	3.20	ft. below TOC
	EPTH (TD		<u> </u>	1	SCREEN INTERVAL	APPEARA	ANCE OF SAI	MPLE:			Clear
	n (inches) : De					LABORAT	ΓORY:			Analy	tical Sciences
	NG VOLUME 3.14 (D <sub>c</sub> / 2) <sup>2</sup> ]		1.02 gallor	ns ::		SEE CHA	IN OF CUST	ODY FORM I	OR ANALY	TICAL INFO	RMATION.
	PURGIN	IG DATA			JLATIVE REMOVED		WATER	CHARACTE	RISTICS		COMMENTS
DATE	TII	ME FINISH	WATER REMOVED (GAL)	GAL	CASING VOLUMES	рН	CONDUC- TIVITY (mmhos/cm)	TURBIDITY (NTU)	TEMPER- ATURE (°C)	DISSOLVED OXYGEN (ppm)	
0/14/05			1	1	0.00	7 70	0.274	*MLE	16.0	0.14	
9/14/05	17:25	17:26	2	3	0.98 2.93	7.78	0.374	212	16.0	0.14	
9/14/05	17:26	17:27	_		-	7.57	0.379		16.7		
9/14/05	17:27	17:28	2	5	4.89	7.48	0.380	132	16.8	0.06	
						1					
											1
											<u> </u>

	S E N	IGI1	NEEF	R S		20	PURGE 005 - 3rd Qu	ıarter	RD		WELL NUMBER MW- 8D
PROJECT		lahmidhau	ier Lumbe			JOB NUMBE	R 3 <b>316.00</b>	SITE 1000 V	Vaterfront		RECORDED BY  Bruce Taverner
		ecnmadau	ier Lumbe	r							
HAND PUN	MP IBLE PUMP		GING HOD 	SAMPLIN METHOL		(±10%), (	or until dry.				es (or 5 gallons minimun cond.) have stabilized
BAILER OTHER				X		* Oil/wat Exceeded		probe used	1 to check	for NAPLs;	MLE = Meter Limit
CASING I	DIAMETER	(D <sub>c</sub> ):2.0	)	ا ما ،	_	DATE OF	SAMPLING:			ę	9/14/2005
DEPTH T	O:			$\rightarrow$ D <sub>C</sub>	GROUND (E)	WEATHE	R:				Overcast
WATER	₹ (h):	7.0	<u>8</u> <del>V</del>		SURFACE	TAGGED	WATER LEV	ELS FROM	TOC:	7	7.08 / 7.08
NAPL:		n.a	* -0.55	h		TAGGED	WELL DEPT	H FROM TO	C:		19.57
NAPL TH	ICKNESS:	n.a.	*		$\left.\right\}$ $\left.\right $ H	PURGE V	OLUME (3 C	ASING VOLU	JMES):	6	.1 gallons
SCREEN	DEPTH:						O WATER FO				ft. below TOC
TOP:		15.	0	]_	$TD_{c}$	TIME OF	SAMPLING:				19:00
BOTTO	DM:	20.	0	<u> </u>			O WATER A	T TIME OF S	AMPLING:	7 01	ft. below TOC
TOTAL D	EPTH (TD <sub>c</sub>	.): 20.0	00	==	SCREEN		ANCE OF SAI		7 WII EII V <u>O.</u>	7.01	Cloudy
Diameters in	(inches) : De	epths in (feet)		==	INTERVAL	LABORA		VII LL.		Analy	
	NG VOLUME .14 (D <sub>c</sub> / 2) <sup>2</sup> ]		2.02 gallor	ns			IN OF CUST	ODY FORM I	FOR ANALY	•	tical Sciences  RMATION.
	PURGIN	G DATA			JLATIVE REMOVED		WATER	CHARACTE	ERISTICS		COMMENTS
DATE	TIN	ME FINISH	WATER REMOVED (GAL)	GAL	CASING VOLUMES	рН	CONDUC- TIVITY (mmhos/cm)	TURBIDITY (NTU)	TEMPER- ATURE (°C)	DISSOLVED OXYGEN (ppm)	
9/14/05	18:38	18:39	1	1	0.50	7.69	2,280	490	15.9	0.05	
9/14/05	18:39	18:40	2	3	1.49	7.57	2.310	143	15.6	0.06	
9/14/05	18:40	18:41	2	5	2.48	7.50	2,270	59	15.6	0.06	
9/14/05	18:41	18:42	2	7	3.47	7.48	2.340	37	15.5	0.06	
,,,,,,,			_	•	-					1	
											<u> </u>

	S E N	I G I I	NEEF	RS		20	PURGE 005 - 3rd Qu	ıarter	RD		WELL NUMBER  MW- 9D
PROJECT	c	'ah maidh an	ier Lumbe	_		JOB NUMBE	R 3 <b>316.00</b>	SITE 1000 X	Vaterfront		RECORDED BY  Bruce Taverner
		ecnmadau	ier Lumbe	r							
HAND PUI	MP SIBLE PUMP	<i>MET</i>	GING 'HOD 	SAMPLIN METHOL		(±10%), (	or until dry.				s (or 5 gallons minimun cond.) have stabilized
BAILER OTHER				X		* Oil/wat Exceeded		probe used	to check t	for NAPLs;	MLE = Meter Limit
CASING	DIAMETER	(D <sub>c</sub> ):2.0	)	ا ما ،	_	DATE OF	SAMPLING:			9	9/14/2005
DEPTH 1	ГО:		Т	$\rightarrow$ D <sub>C</sub>	GROUND (E)	WEATHE	R:			(	Overcast
WATE	R (h):	6.9	<u>8</u> <del>V</del>		SURFACE	TAGGED	WATER LEV	ELS FROM	TOC:	6	.98 / 6.98
NAPL:		n.a	* -0.49	h		TAGGED	WELL DEPT	H FROM TO	C:		19.86
NAPL TH	ICKNESS:	n.a	.*	 	$\left\{\begin{array}{cc}   \\   \\   \end{array}\right\}$	PURGE V	OLUME (3 C	ASING VOLU	JMES):	6.	4 gallons
SCREEN	DEPTH:						O WATER F				ft. below TOC
TOP:		15.	5	]	$TD_{c}$	TIME OF	SAMPLING:				19:20
BOTTO	OM:	20.	5	<u> </u>			O WATER A	T TIME OF S	AMPLING:	6.80	ft. below TOC
TOTAL D	EPTH (TD <sub>c</sub>	.): 20.5	50	==	SCREEN		ANCE OF SAI		7 UVII EII V <u>O.</u>	0.00	Cloudy
Diameters in	n (inches) : De	epths in (feet)		==	INTERVAL	LABORA		VII LL.	_	Analys	<u> </u>
	NG VOLUME 3.14 (D <sub>C</sub> / 2) <sup>2</sup> ]		2.13 gallor	ns			IN OF CUST	ODY FORM I	 FOR ANALY		tical Sciences  RMATION.
	PURGIN	G DATA			JLATIVE REMOVED		WATER	CHARACTE	RISTICS		COMMENTS
DATE	TIN	ME FINISH	WATER REMOVED (GAL)	GAL	CASING VOLUMES	рН	CONDUC- TIVITY (mmhos/cm)	TURBIDITY (NTU)	TEMPER- ATURE (°C)	DISSOLVED OXYGEN (ppm)	
9/14/05	19:05	19:06	1	1	0.47	7.59	2.610	*MLE	15.2	0.05	
9/14/05	19:06	19:07	2	3	1.41	7.31	2.380	341	15.4	0.07	
9/14/05	19:07	19:09	2	5	2.35	7.22	2.340	137	15.4	0.07	
9/14/05	19:09	19:11	2	7	3.29	7.18	2.330	90	15.4	0.07	
						1					
ļ											

# Appendix B Analytical Science Report #5091602, dated 4 October 2005



October 04, 2005

Karin Fresnel SCS Engineers 3645 Westwind Blvd Santa Rosa CA, 95403

Dear Karin,

Enclosed you will find Analytical Sciences' final report 5091602 for your Schmidbauer project. An invoice for this work is enclosed.

Should you or your client have any questions regarding this report please contact me at your convenience. We appreciate you selecting Analytical Sciences for this work and look forward to serving your analytical chemistry needs on projects in the future.

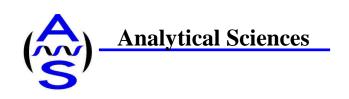
Sincerely,

**Analytical Sciences** 

Mark A. Valentini, Ph.D.

**Laboratory Director** 

P.O. Box 750336 Petaluma, CA 94975-0336 Telephone: (707) 769-3128



Report Date: October 04, 2005

# **Laboratory Report**

Karin Fresnel SCS Engineers 3645 Westwind Blvd Santa Rosa CA, 95403

Project Name: Schmidbauer 01203316.00

Lab Project: **5091602** 

This 6 page report of analytical data has been reviewed and approved for release.

Mark A. Valentini, Ph.D.

Mark A. Valentini

**Laboratory Director** 



# **Chlorinated Phenols by Canadian Pulp Method in Water**

Lab#	Sample ID	Compound Name	Result (ug/	L) RDL (ug/L)
5091602-01	MW-1	2,4,6-Trichlorophenol	ND	1.0
		2,4,5-Trichlorophenol	ND	1.0
		2,3,4-Trichlorophenol	ND	1.0
		2,3,5,6-Tetrachlorophenol	ND	1.0
		2,3,4,6-Tetrachlorophenol	ND	1.0
		2,3,4,5-Tetrachlorophenol	ND	1.0
		Pentachlorophenol	ND	1.0
Date Sampled:	09/14/05	Date Analyzed:	09/21/05	QC Batch: B000096
Date Received:	09/16/05	Method:	Canadian Pulp Method	

### **Chlorinated Phenols by Canadian Pulp Method in Water**

Lab#	Sample ID	Compound Name	Result (ug/l	L) RDL (ug/L)
5091602-02	MW-3R	2,4,6-Trichlorophenol	ND	1.0
		2,4,5-Trichlorophenol	ND	1.0
		2,3,4-Trichlorophenol	ND	1.0
		2,3,5,6-Tetrachlorophenol	ND	1.0
		2,3,4,6-Tetrachlorophenol	ND	1.0
		2,3,4,5-Tetrachlorophenol	ND	1.0
		Pentachlorophenol	ND	1.0
Date Sampled:	09/14/05	Date Analyzed:	09/21/05	QC Batch: B000096
Date Received:	09/16/05	Method:	Canadian Pulp Method	

### **Chlorinated Phenols by Canadian Pulp Method in Water**

Lab#	Sample ID	Compound Name	Result (ug/L	) RDL (ug/L)
5091602-03	MW-4	2,4,6-Trichlorophenol	ND	1.0
		2,4,5-Trichlorophenol	ND	1.0
		2,3,4-Trichlorophenol	ND	1.0
		2,3,5,6-Tetrachlorophenol	ND	1.0
		2,3,4,6-Tetrachlorophenol	ND	1.0
		2,3,4,5-Tetrachlorophenol	ND	1.0
		Pentachlorophenol	ND	1.0
Date Sampled:	09/14/05	Date Analyzed:	09/21/05	QC Batch: B000096
Date Received:	09/16/05	Method:	Canadian Pulp Method	



# **Chlorinated Phenols by Canadian Pulp Method in Water**

Lab#	Sample ID	Compound Name	Result (ug/	L) RDL (ug/L)
5091602-04	MW-5	2,4,6-Trichlorophenol	ND	1.0
		2,4,5-Trichlorophenol	ND	1.0
		2,3,4-Trichlorophenol	ND	1.0
		2,3,5,6-Tetrachlorophenol	ND	1.0
		2,3,4,6-Tetrachlorophenol	ND	1.0
		2,3,4,5-Tetrachlorophenol	ND	1.0
		Pentachlorophenol	ND	1.0
Date Sampled:	09/14/05	Date Analyzed:	09/21/05	QC Batch: B000096
Date Received:	09/16/05	Method:	Canadian Pulp Method	

### **Chlorinated Phenols by Canadian Pulp Method in Water**

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5091602-05	MW-6	2,4,6-Trichlorophenol	ND	1.0
		2,4,5-Trichlorophenol	ND	1.0
		2,3,4-Trichlorophenol	ND	1.0
		2,3,5,6-Tetrachlorophenol	ND	1.0
		2,3,4,6-Tetrachlorophenol	ND	1.0
		2,3,4,5-Tetrachlorophenol	ND	1.0
		Pentachlorophenol	ND	1.0
Date Sampled:	09/14/05	Date Analyzed:	09/21/05	QC Batch: B000096
Date Received:	09/16/05	Method:	Canadian Pulp Method	

### **Chlorinated Phenols by Canadian Pulp Method in Water**

Lab#	Sample ID	Compound Name	Result (ug/L	) RDL (ug/L)
5091602-06	MW-7	2,4,6-Trichlorophenol	ND	1.0
		2,4,5-Trichlorophenol	ND	1.0
		2,3,4-Trichlorophenol	ND	1.0
		2,3,5,6-Tetrachlorophenol	ND	1.0
		2,3,4,6-Tetrachlorophenol	ND	1.0
		2,3,4,5-Tetrachlorophenol	ND	1.0
		Pentachlorophenol	ND	1.0
Date Sampled:	09/14/05	Date Analyzed:	09/21/05	QC Batch: B000096
Date Received:	09/16/05	Method:	Canadian Pulp Method	



# **Chlorinated Phenols by Canadian Pulp Method in Water**

Lab#	Sample ID	Compound Name	Result (ug	L)	RDL (ug/L)
5091602-07	MW-8D	2,4,6-Trichlorophenol	ND		1.0
		2,4,5-Trichlorophenol	ND		1.0
		2,3,4-Trichlorophenol	ND		1.0
		2,3,5,6-Tetrachlorophenol	ND		1.0
		2,3,4,6-Tetrachlorophenol	ND		1.0
		2,3,4,5-Tetrachlorophenol	ND		1.0
		Pentachlorophenol	ND		1.0
Date Sampled:	09/14/05	Date Analyzed:	09/21/05	QC Batch: 1	B000096
Date Received:	09/16/05	Method:	Canadian Pulp Method		

# **Chlorinated Phenols by Canadian Pulp Method in Water**

Lab#	Sample ID	Compound Name	Result (ug/	L) RDL (ug/L)	
5091602-08	MW-9D	2,4,6-Trichlorophenol	ND	1.0	
		2,4,5-Trichlorophenol	ND	1.0	
		2,3,4-Trichlorophenol	ND	1.0	
		2,3,5,6-Tetrachlorophenol	ND	1.0	
		2,3,4,6-Tetrachlorophenol	ND	1.0	
		2,3,4,5-Tetrachlorophenol	ND	1.0	
		Pentachlorophenol	ND	1.0	
Date Sampled:	09/14/05	Date Analyzed:	09/21/05	QC Batch: B000096	
Date Received:	09/16/05	Method:	Canadian Pulp Method		



# **Quality Assurance Report**

# **Chlorinated Phenols by Canadian Pulp Method in Water**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B000096 - EPA 3510C_MS										
Blank (B000096-BLK1)				Prepared:	09/19/05	Analyze	ed: 09/21/0	)5		
2,4,6-Trichlorophenol	ND	1.0	ug/L							
2,4,5-Trichlorophenol	ND	1.0	ug/L							
2,3,4-Trichlorophenol	ND	1.0	ug/L							
2,3,5,6-Tetrachlorophenol	ND	1.0	ug/L							
2,3,4,6-Tetrachlorophenol	ND	1.0	ug/L							
2,3,4,5-Tetrachlorophenol	ND	1.0	ug/L							
Pentachlorophenol	ND	1.0	ug/L							
LCS (B000096-BS1)				Prepared:	09/19/05	Analyze	ed: 09/21/0	)5		
2,3,5,6-Tetrachlorophenol	4.93	1.0	ug/L	5.00		99	30-130			
2,3,4,6-Tetrachlorophenol	5.07	1.0	ug/L	5.00		101	30-130			
2,3,4,5-Tetrachlorophenol	5.00	1.0	ug/L	5.00		100	30-130			
Pentachlorophenol	4.73	1.0	ug/L	5.00		95	30-130			
LCS Dup (B000096-BSD1)				Prepared: 09/19/05 Analyzed: 09/21/05						
2,3,5,6-Tetrachlorophenol	5.53	1.0	ug/L	5.00		111	30-130	11	20	
2,3,4,6-Tetrachlorophenol	5.67	1.0	ug/L	5.00		113	30-130	11	20	
2,3,4,5-Tetrachlorophenol	5.73	1.0	ug/L	5.00		115	30-130	14	20	
Pentachlorophenol	5.13	1.0	ug/L	5.00		103	30-130	8	20	

Lab Project#: 5091602 CA Lab Accreditation #: 2303



# **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference



Analytical Sciences
P.O. Box 750336, Petaluma, CA 94975-0336
110 Liberty Street, Petaluma, CA 94952
(707) 769-3128

# CHAIN OF CUSTODY LAB PROJECT NUMBER: 579/16/12

	CLIENT INFORMATION	ORMATIC	NO			BILLI	VG/	NFOF	BILLING INFORMATION	NO		SC	S ENG	NEERS	SCS ENGINEERS PROJECT NAME:	T NAM		Schmidbauer	auer	
Ö	COMPANY NAME: SCS ENGINEERS	NGINEERS				CONTACT:		RichGraham	ma			SCS	NGINE	ERS PR	SCS ENGINEERS PROJECT NUMBER:	NOMBE		01203316.00	9.00	
	ADDRESS: 3645 WESTWIND BOULEVARD	FSTWIND B	OULEV.	ARD	COMP	PANY NAME:	1	hmidba	Schmidbauer Lumber	nber		Ţ	URNA	ROU	TURNAROUND TIME (check one)	IE (ch	eck o	ле)	GEOTRACKER EDF:	Y
	SANTA	SANTA ROSA, CA 95403	95403			Address:		199 Wat	1099 Waterfront Drive	Drive		MoBil	MOBILE LAB		П				GLOBAL ID:	
	CONTACT: Karin Fresnel	esnel					<u> </u>	ureka, C	Eureka, CA 95502			SAA	SAME DAY			24 Hours	URS		COOLER TEMPERATURE	RE
	PHONE#: (707) 546-9461	46-9461				PHONE#:		707 443-7024	024			48	48 Hours	Ц		72 Hours	URS L		ပ္	
	Fax #: (707) 544-5769	44-5769				FAX #:	 					2	5 DAYS	Ц		NORMAL	¥	7	202	e pog l
												ANAL YSIS	SIS,						PAGE_1_OF_	1
ITEM	CLIENT SAMPLE ID.	DATE	TIME	MATRIX	CONT.	PRESV.	TPH/GAS/BTEX EPA 8015M/8020	HPH DIESEL / MOTOR OIL M2108 A93	VOLATILE HYDROCARBONS 12850 (FULL LIST)	EPA 8260 Full List Oxy / Fuel Additives X & OXYGENATES	PB SCAVENGERS EPA 8260B OXYGENATED	FUEL ADDITIVES EPA 8260M CHLORINATED	SOLVENTS SEMI-VOLATILE STATE S	EPA 8270 5520F / EPA 418.1M	ESTICIDES / PCB'S A 8081 / 8141 / 8082	VA 17 METALS / SLATAM TTULS	GA3J JATOT	929/95	COMMENTS	LAB SAMPLE #
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n 6	MW-3R	9-14-05 5:15	+-	Lia	d	3								-				×	AMA/ize	20
4	MW-4	9-14-07445	7.45	_	-													X	for Digarins	50
32	MW-5	19-4-05	1.12													200		×		60
g	MW-6	9-14-05 8:36	25.5							24								×		98
7	MW-7	9-4-6	5:35					a.										X		90
80	MW-8D	9-14-057:00	2:00											3				X	10	40
a	Q6-MM	9-14057:20	7:20	7	_	-												X		80
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REC	RECEIVED BY:				DATE::			TIME:			REC	RECEIVED BY LABORATORY:	BY LAE	grago	RY:	·				
RELI	RELINQUISHED BY:				DATE::			TIME:				ل			Š	0			9-16-03	(210)
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